

EXCEEDANCE TYPES

April 1 – April 30, 2008

According to the Washington Department of Ecology TDG variance for 2008 spill season, the Corps is required to provide the following information on exceedances of the 120% TDG in tailwater and 115% TDG in forebay water quality standards:

1. Date and times of exceedance
2. Amount of exceedance in percent saturation
3. Explain reason for exceedance
4. Discuss steps taken to fix the problem.

In order to provide the above information, the Corps has developed the following list of reasons that exceedances occur. The following table lists the type of exceedances for the used in the 2003-2008 spill seasons.

| TDG EXCEEDANCE TRACKING | |
|---|--|
| Types of Exceedances: | |
| 1. Exceedance due to high runoff flows and flood control efforts | |
| 2. Exceedance due to Intertie line outages | |
| 3. Exceedance due to unit outages during repair or maintenance | |
| 4. Exceedance due to BPA is unable to handle load so they had to spill | |
| 5. Exceedance due to a break down in communication. (e.g. Teletype transmission failure or project operator misinterpreted teletype) | |
| 6. Exceedance due to uncertainties when using best professional judgment to apply the spill guidance criteria (travel time; degassing; water temperature effects; spill patterns) | |
| 7. Exceedance due to high TDG levels coming from the Mid-Columbia Projects (see Pasco FMS readings). | |
| 8. Exceedance due to high TDG levels coming from the Snake Projects (See Ice Harbor Dam tailwater FMS readings) | |
| 9. Exceedance due to a load rejection, the powerhouse was not working and the river was spilled. | |
| 10. Exceedance due to failure of FMS gages, database outage, and satellite failures, etc | |
| 11. Exceedance due to other unanticipated mechanical problems/maintenance operations (gate was stuck open, passing debris etc.) | |
| 12. Exceedance due to sharp rise in water temperature (a 3 to 5 degree F. change in a day). | |
| 13. Exceedance due to bulk spill pattern being used which generated more TDG than expected. | |
| 14. Exceedance due to high tailwater elevation and increased sensor depth | |
| 15. Others - unknown | |

Exceedances are shown on the following table for April 1 to April 30, 2008.

TYPES OF TDG EXCEEDANCES

For 2008 Spill Season

| Date | Low Gran FB | Low Gran TW | Little Goose FB | Little Goose TW | Low Monu. FB | Low Monu. TW | Ice Harb FB | Ice Harb TW | McNary FB | McNary TW | John Day FB | John Day TW | The Dalles FB | The Dalles TW | BON FB | BON TW | Camas FB |
|--------------|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|
| 4/3/08 | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | | | | | | | | | |
| 4/4/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/5/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/6/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/7/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/8/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/9/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/10/08 | --- | --- | --- | --- | --- | --- | --- | --- | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins | Spill Begins |
| 4/11/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12 |
| 4/12/08 | --- | --- | --- | --- | --- | --- | 6 | --- | --- | --- | --- | --- | 6 | --- | --- | --- | --- |
| 4/13/08 | --- | --- | --- | --- | --- | --- | 6 | --- | --- | --- | --- | --- | 6 | --- | --- | --- | 12 |
| 4/14/08 | --- | --- | --- | --- | --- | --- | 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/15/08 | --- | --- | --- | --- | --- | --- | 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/16/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/17/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/18/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/19/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/20/08 | --- | --- | --- | --- | --- | 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/21/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/22/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/23/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/24/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/25/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/26/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/27/08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/28/08 | --- | --- | --- | --- | 6 | --- | 6 | --- | --- | --- | --- | --- | --- | --- | 6 | --- | 6 |
| 4/29/08 | --- | --- | --- | --- | 6 | --- | 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6 |
| 4/30/08 | --- | --- | --- | --- | --- | --- | 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total | 0 | 0 | 0 | 0 | 2 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 4 |

Monthly Grand Total

17